



### Figure 1A

	helix A	helix B
HIV-1'0'	1 PVVPNAQGQMIHQALSPRTLNAWVKAVE	EEKAFNPEIIPMFMALSEGAIPY 50
HIV-1'M'	1 PVVPNAQGQMIHQALSPRTLNAWVKAVE  :       :  :              1 PIVQNIQGQMVHQAISPRTLNAWVKVVE	EKAFSPEVIPMFSALSEGATPQ 50
	M1/O1 pept.	
		M3/O3 pept.
	helix C helix D	
HIV-1'0'	51 DINIMINATGGHOGALOVI, KEVINERA	ADWDRSHPPVVGPLPPGOIREPT 100
HIV-1'M'	:    :      51 DLNTMLNTVGGHQAAMQMLKETINEEA	AEWDRVHPVHAGPIAPGQMREPR 100
	M4/O4 pe	ept. M5/O5 pept. 
		halder of
	helix E helix F	nellx G
HIV-1'0'	101 GSDIAGTTSTQQEQVHWITRANHPVPVC	:  ::  :
HIV-1'M'	101 GSDIAGTTSTLQEQIGWMTN.NPPIPVO	ŠEÍÝKRWÍILGLNKIVRMÝSÞTS 149
	M7/07 pent	
		-  M8/O8 pept.
	101 ĠŚDIAĠTTŚTLQEQIGWMTN.NPPIPVO   M6/O6 petp.   M7/O7 pept. 	
	helix H	helix I helix J
HIV-1'O'	151 TLDTKOGPKEPFRDYVDRFYKTLRAEO	~~~~~~~~~~~
	151 ILDIKQGPKEPFRDYVDRFYKTLRAEQ     :	:
HIV-1'M'	************* (M	
	M9/O9 pept.	
	M10/010 pept.	M11/011 pept.
	'	M11/011 pept.
		'
	J helix K	
HIV-1'0'	201 QILKALGPGATLEEMMVACQGVGGPTH	KAKLL 232
HIV-1'M'	200 TILKALGPAATLEEMMTACQGVGGPGH	KARVL 231
	M12/012 pept.	pept.

#### Figure 1B

# Sequence alignment f HIV-1 p24 antigen from Group O (Ham 112) and Group M (HXB2) and HIV-2 p26 antigen from subtype A (D194)

				helix A	helix	В	
	HIV-1'0'	1	PVVPNAQGQMIHQA	LSPRTLNAWVKA	~~~ VEEKAFNPEIIPMF! 	MALSEGAIPY	50.
	HIV-1'M'	1	PIVONIOGOMVHOA	ISPRTLNAWVKV	VEEKAFSPEVIPMF:	SALSEGATPQ	50
	HIV-2'A'	1	:  ::  P.VQQAGGNYIHVP	:          : LSPRTLNAWVKL	:        :    VEEKKFGAEVVPGF	·	49
	,						
			helix C	helix D			
	HIV-1'0'	51	DINIMLNAIGGHQG	ALQVLKEVINEE	AADWDRSHPPVVGP	LPPGQIREPT	100
				1:1.111 1111		:    .	
	HIV-1'M'		DLNTMLNTVGGHQA	111.::1 1111	:     :	:   : :	
	HIV-2'A'	50	DINQMLNCVGDHQA	AMQIIREIINEE	AADWDAQHPIP.GP	LPAGQLRDPR	9.8
il. Fr	•					•	
= .				,			
		. 1	helix E he	lix F	helix G		
U	HIV-1'O'	101	GSDIAGTTSTQQEQ	·~~~~~ WHWTTRANHPVP	VGDTYRKWTVIGIN	~~~ KMVKMYSPVS	150
	HIV-I			:  .     :	:     : :     :	•   •	1
:	HIV-1'M'	101	GSDIAGTTSTLOEC	IGWMTN.NPPIP	VGEIYKRWIILGLN      :   :  :	KIVRMYSPTS	149
	HIV-2'A'	99	GSDIAGTTSTVDEC	ĮĮOMMYRQPNPVP	VGNIYRRWIQIGLQ	KCVRMYNPTN	148
		4					
. 9			heli	ж Н	helix I	helix J	
			~~~		~~~~~~~~~~	~~ ~~~~	
	HIV-1'0'	151	ILDIKQGPKEPFRI	********** )YVDRFYKTLRAE		LVQNANPDCK	200
	HIV-1'M'	150	ildirogpképfrí	:	:		T 33
5	HIV-2'A'	149	ILDVKQGPKESFQS				198
	•						
٠.			J heli	x K			
	HIV-1'O'	201	QILKALGPGATLE	MMVACQGVGGPI	CHKAKLL 232		
	HIV-1'M'	200					
	HIV-2'A'	199	LVLKGLGMNPTLE				

3.5

3

Figure 2A. Monoclonal antibodies 103-350-474 and 117-289-555 binding to p24 peptides

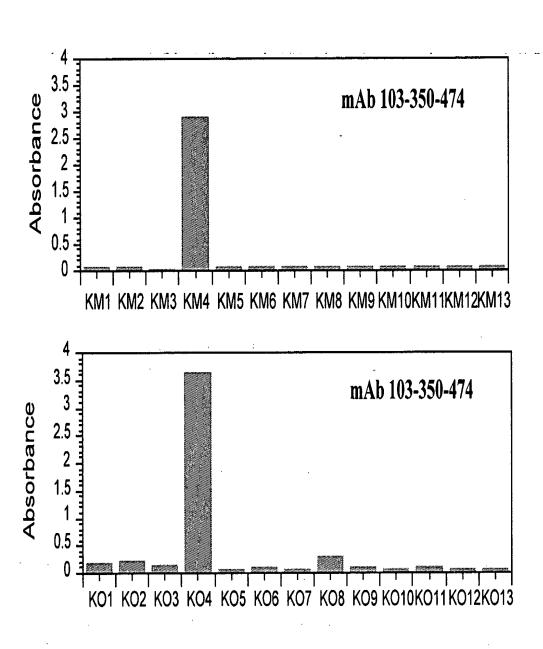


Figure 2B. Monoclonal antibodies 115-303-620, 120A-270-108 and 115B-151-423 binding to p24 peptides

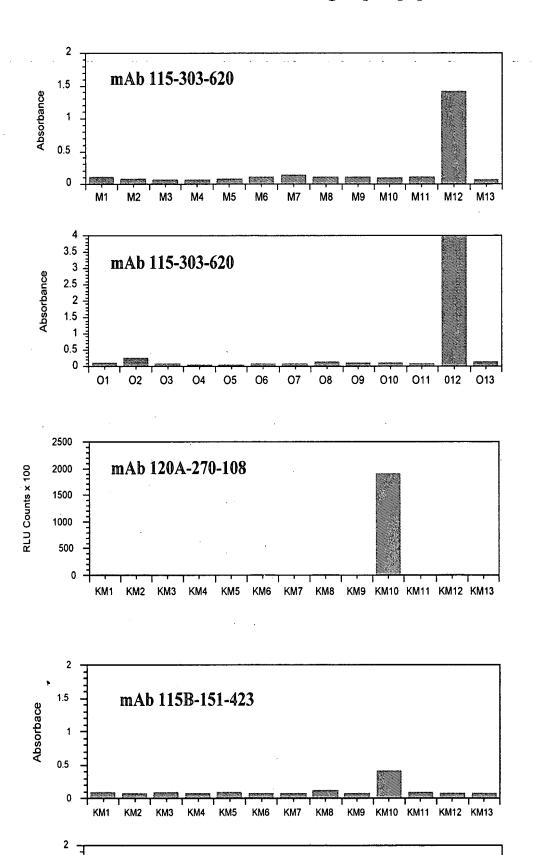


Figure 3 Location of deletion clones derived from HIV-1 group M and O p24

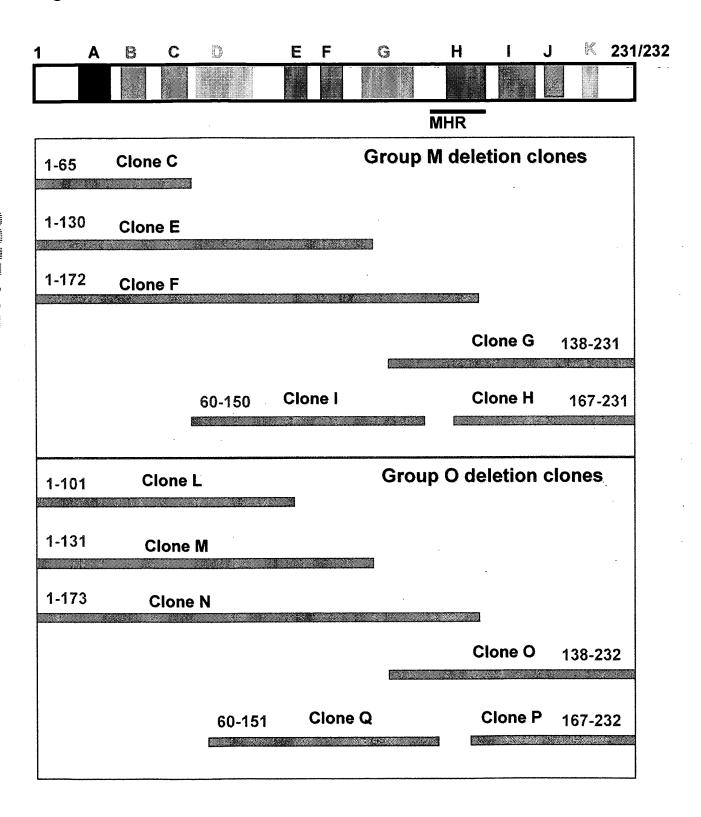
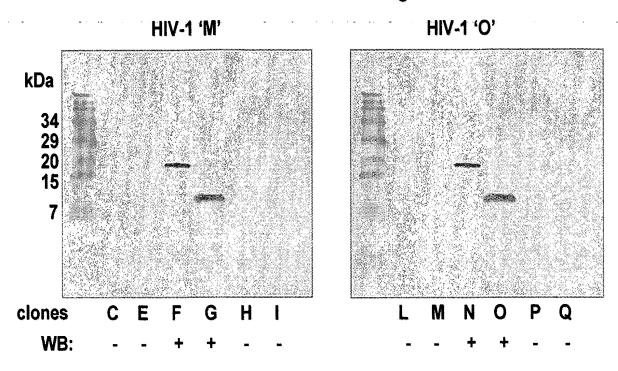
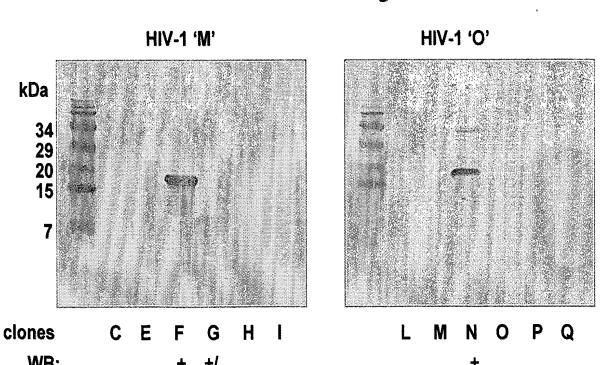


Figure 4 Western blots of mAbs against p24 deletion clones

## Western blot of mAb 115B-151-423 against deletion



## Western blot of mAb 108-394-470 against deletion



0

Figure 5 HIV-1 p24 epitopes recognized by p24 Mabs

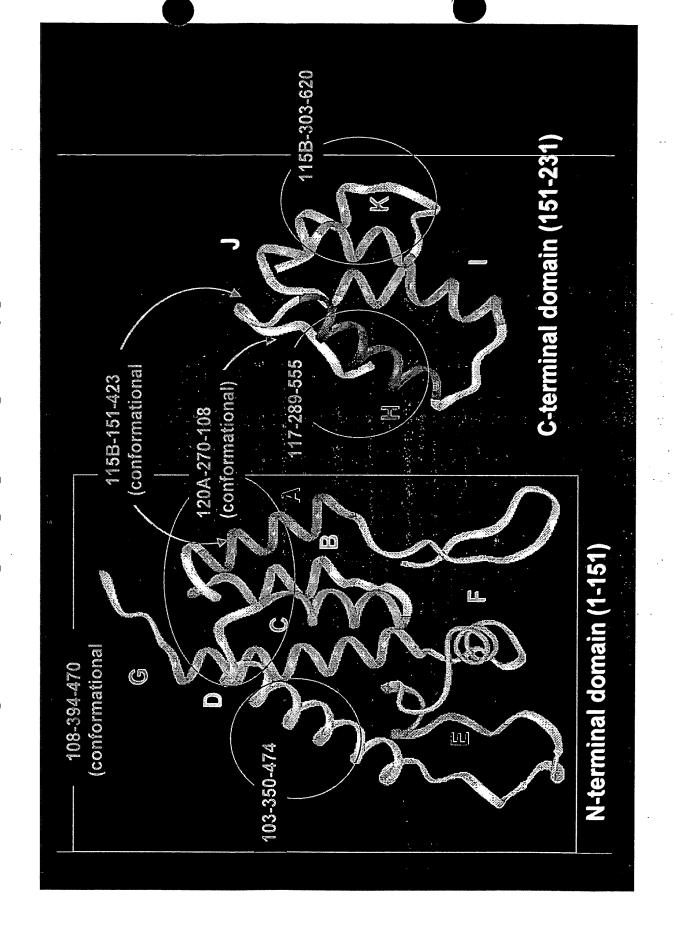


Figure 6. HIV-1 p24M detection by 120A-270-108-uParticle and 115B-151-423-ACR on Prism Standalone instrument

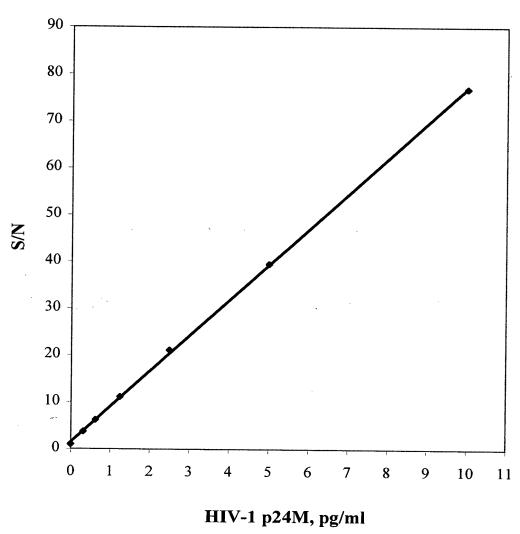


Figure 7. HIV-1 rp24O detection by 120A-270-108-uParticleand 115B-151-423-ACR on Prism Standalone instrument

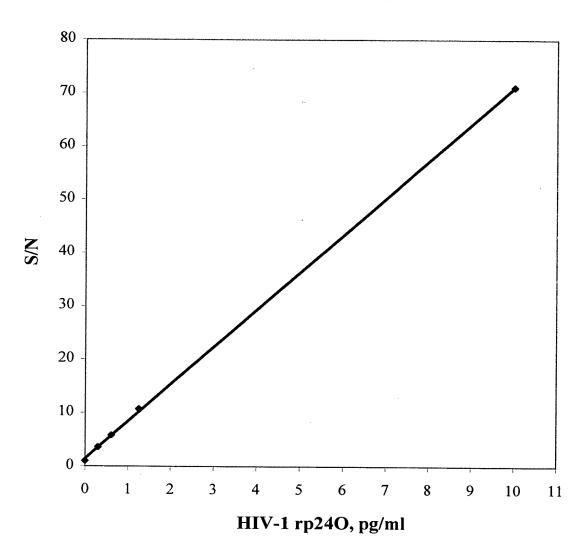


Figure 8.
HIV-2 rp26 detection by 120A-270-108-uParticle and 115B-151-423-ACR on Prism Standalone instrument

